

USSN 10/033,086
Page 2

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A peroxide sensitive enzyme particle stabilized for addition to a composition containing peroxygen bleach, the particle comprising a core made of an inorganic salt or sugar, and a layer surrounding the core, the layer comprising (1) a peroxide-sensitive enzyme component and (2) a hydrogen-peroxide:hydrogen-peroxide-reductase, the reductase at a concentration of about 10 U/g to about 350 U/g of the particle, the particle exhibiting enhanced accelerated storage stability in a detergent base containing peroxygen bleach as compared to an accelerated storage stability of a similar particle without the addition of the hydrogen-peroxide:hydrogen-peroxide reductase.
2. (Currently amended) The particle of claim 1 wherein the ~~peroxide-sensitive component is an enzyme component is,~~ selected from a protease, an amylase, a cellulase, or a lipase, ~~the particle exhibiting enhanced accelerated storage stability as compared to a similar particle without the addition of the hydrogen-peroxide:hydrogen-peroxide reductase.~~
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Currently amended) The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is mixed together with the peroxide-sensitive enzyme component.
7. (Currently amended) The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is coated over the peroxide-sensitive enzyme component.
8. (Previously amended) The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration of less than about 350 U/g of particle.

USSN 10/033,086

Page 3

9. (Previously amended) The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration between about 20 U/g and about 200 U/g of particle.
10. (Previously amended) The particle of claim 1 wherein the hydrogen-peroxide-reductase is present at a concentration of about 10- 100 U/g of particle.
11. (Original) The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration of about 10-200 U/ gram of particle.
12. (Original) The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration of about 15-150 U/g gram of particle.
13. (Original) The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration of about 20-100 U/ gram of particle.
14. (Original) The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration of about 60-100 U/gram of particle.
15. (Original) The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is a naturally occurring catalase.
16. (Original) The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is an engineered catalase.
17. (Original) The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is a catalase derived from *Aspergillus niger*.
18. (Original) The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is a catalase derived from a *Micrococcus species* of bacteria.
19. (Original) A detergent with peroxygen bleach, such as perborate or percarbonate, including the particle of claim 1.

GC644-3 amendment after final 12-03

USSN 10/033,086

Page 4

20. (Currently amended) A method of stabilizing an peroxide sensitive enzyme component in a ~~detergent granule containing peroxygen bleach environment~~, the method comprising; ~~the step of adding~~ providing a core; forming a granule by coating the core with the peroxide sensitive enzyme component and a hydrogen-peroxide:hydrogen-peroxide-reductase, the reductase at a concentration of about 10 U/g to about 350 U/g of the granule, the granule with the peroxide sensitive enzyme component exhibiting enhanced accelerated storage stability in a bleach containing detergent as compared to an accelerated storage stability a similar granule without addition of the hydrogen-peroxide:hydrogen-peroxide reductase to the enzyme during manufacture of the granule.
21. (Currently amended) The method of claim 20 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is a catalase that is mixed together with the peroxide sensitive enzyme component.
22. (Currently amended) The method of claim 20 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is a catalase that is added to surround the peroxide sensitive enzyme component.
23. (Original) The method of claim 20 wherein about 10-200 U of a catalase hydrogen-peroxide:hydrogen-peroxide-reductase is added per gram of the granule.
24. (Original) The method of claim 20 wherein about 15-150 U of a catalase hydrogen-peroxide:hydrogen-peroxide-reductase is added per gram of the granule.
25. (Original) The method of claim 20 wherein about 20-100 U of a catalase hydrogen-peroxide:hydrogen-peroxide-reductase is added per gram of the granule.
26. (Original) The method of claim 20 wherein about 60-100 U of a catalase hydrogen-peroxide:hydrogen-peroxide-reductase is added per gram of the granule.

USSN 10/033,086

Page 5

27. (Previously amended) The method of claim 20 wherein about 40 to about 350 U of a catalase hydrogen-peroxide:hydrogen-peroxide-reductase is added per gram of the granule.
28. (Currently amended) A particle for use in compositions containing peroxygen bleach, the particle comprising:
a core selected from clays, nonpareils, and seed crystals;
a layer surrounding the core, the layer comprising (1) a peroxide-sensitive enzyme component and (2) a hydrogen-peroxide:hydrogen-peroxide-reductase at a concentration per particle of 10 U/g to 350 U/g of particle.
29. (Currently amended) The particle of claim 28 wherein the core is selected from ~~clays, nonpareils, agglomerated potato starch, seed crystals,~~ inorganic salts, inorganic sugars, and urea ~~small organic molecules~~.
30. (Previously Added) The particle of claim 28 further comprising a barrier material surrounding the layer.
31. (Previously Added) The particle of claim 28 further comprising an outer coating surrounding the layer.
32. (Currently amended) The granule of claim 28 wherein the peroxide-sensitive enzyme component is an-enzyme, selected from a protease, an amylase, a cellulase, or a lipase.
33. (Canceled)
34. (Currently amended) The particle of claim 31 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is added to and mixed together with the peroxide-sensitive enzyme component.
35. (Currently amended) The particle of claim 31 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is coated over the peroxide-sensitive enzyme component.
36. (Previously Added) The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration of about 20-100 U/g of particle.
37. (Previously Added) The particle of claim 31 wherein the hydrogen-peroxide-reductase is present at a concentration of about 60-100 U/g of particle.

GC644-3 amendment after final 12-03

USSN 10/033,086
Page 6

38. (Previously Added) The particle of claim 31 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration of about 10-200 U/ gram of particle.
39. (Previously Added) The particle of claim 31 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration of about 15-150 U/g gram of particle.
40. (Previously Added) The particle of claim 31 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration of about 40-310 U/ gram of particle.
41. (Currently amended) The ~~particle~~ granule of claim 32 exhibiting enhanced accelerated storage stability as compared to a similar ~~particle-~~ granule without the hydrogen-peroxide:hydrogen-peroxide-reductase.
42. (Previously added) The detergent of claim 19 wherein active oxygen percentage is not significantly reduced by the hydrogen-peroxide:hydrogen-peroxide-reductase as measured in a wash performance test.